## TESTIMONY OF A.R. WATTS

OF

THE PUBLIC SERVICE COMMISSION OF SOUTH CAROLINA

DOCKET NO. 94-006-E

IN RE: DUKE POWER COMPANY

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- Q. WOULD YOU PLEASE STATE YOUR NAME, ADDRESS AND OCCUPATION?
- A.R. Watts, 111 Doctors Circle, Columbia, South Carolina. Ι employed by the Public am Service Commission o f South Carolina, as Chief Electric Department.
  - Q. PLEASE STATE YOUR EDUCATIONAL BACKGROUND AND EXPERIENCE.
  - received a B.S. Degree in Electrical Engineering from the University of South Carolina in Columbia in 1976. was employed at that time by as a Utilities Engineer Commission in the Electric Department and have been in my present position : since August 1981. I have attended professional seminars relating to Electric Utility Rate Design, have testified before this Commission and conjunction with fuel clause and general proceedings.

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- A. The purpose of my testimony is to summarize Staff's findings and recommendations as set forth in the Electric Department's Report with the exception of the review of the operations of the McGuire and Catawba Nuclear Plants which were examined by Staff witness Erskine.
- Q. MR. WATTS, WHAT SPECIFIC AREAS WERE ENCOMPASSED BY STAFF'S EXAMINATION?
- The Electric Department's examination fuel operations consists of a review of Company's monthly operating reports, the Company's inspection of the Company's coal quality sampling techniques, review of the currently approved adjustment for fuel costs and review the short-term projections of kilowatt-hour sales and fuel requirements.
- Q. DID STAFF REVIEW THE MUCLEAR OPERATIONS FOR THIS PERIOD?
- A. Yes, we looked at the Company's operation of its nuclear production facilities during the six month period of this fuel proceeding to determine if the Company made every reasonable effort to minimize fuel costs or if any decision of the Company

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resulted in unreasonable fuel costs. This review was coupled with a reliability of service criteria.

- Q. WOULD YOU DISCUSS THE METHODOLOGY USED IN THIS PROCESS?
- by review of each plant outage We looked at Yes. correspondence between reports and Company and the Nuclear Regulatory Commission (NRC) Company the outages which required reporting. We concerning Company representatives to time with spent discuss each outage and the sequence of events which those which dictated the outage and the corrective outages. We looked at of the duration prevent or reduce which were instituted to actions likelihood of repeats of these problems.
- Q. IN YOUR REVIEW OF THE COMPANY'S PLANT OPERATIONS,

  HAVE YOU DETERMINED THAT ANY SITUATIONS WARRANT A

  DETERMINATION THAT ANY COMPANY ACTION CAUSED ITS

  CUSTOMERS TO BE SUBJECT TO PAYING HIGHER FUEL COSTS?
- Supreme Court of ruling of the the No, in Carolina in Hamm vs. Public Service Commission and it states, "The Power & Light Company, Carolina to show that its does not require the utility rule was free from human error; rather, it must steps to safequard took reasonable it Staff believes the Company has met error."

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criteria to take reasonable steps to safeguard this associated with error personnel aqainst the Oconee Station outages at examination of the proceeding. reviewed for this vere that

units nuclear Company's Specifically the average capacity factor at an overall of from lov the period, ranging 82% approximately 72% in May and June to a high of 97% in April 1994.

- Q. MR. WATTS, DID STAFF EXAMINE THE OPERATION OF THE COMPANY'S FUEL TARIFF FOR THE PERIOD UNDER REVIEW?
  - Yes, Exhibit No. 10 is a table of Projections of the various fuel base Recovery Account for Cumulative for the six month period ending May 1995. the currently projected sales and fuel cost Using figures through May 1995, and a projected cumulative recovery of \$1,551,527 through November 1994, average projected fuel expense is approximately .1.0508 ¢/KWH for the six months ending in May 1995. Applying this fuel factor to the period would create an estimated \$2,708 under recovery in the cumulative recovery account. The currently approved base fuel Applying the current factor is 1.0000 ¢/KWH. which is also the Company's proposed factor the period would create an estimated \$5,104,344

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- Q. WOULD YOU BRIEFLY EXPLAIN THE REMAINING ELECTRIC DEPARTMENT EXHIBITS?
  - a listing of power plant Staff Exhibit No. l is equivalent availability factors and capacity shows the Exhibit No. 2 respectively. factors, the months Outages Major Unit for Company's listing 1994, the through September 1994 plants by unit, duration of the outage, reason for outage, and corrective action taken. Exhibit No. 3 the Company's percentage Generation Mix by lists fossil, nuclear, and hydro for the period April 1994 Exhibit No. 4 reflects the September 1994. major plants by name, type of fuel used, Company's cents per KWH to operate, and total fuel cost in generated for the six months ending megawatt-hours 5 shows 30, 1994. Exhibit No. September original retail the Company's of comparison megavatt-hour estimated sales to the actual sales month period ending September Six Company's forecast of sales has been projected with a high degree of accuracy. Exhibit No. 6 is a comparison of the original fuel factor projections factors actually experienced for the the ending September 1994. Exhibit No. 7 is a months

graphical representation including historical and projected data given in Exhibit No. 6 commencing January 1993. Exhibit No. 8 is the Company's currently approved retail adjustment for fuel costs tariff. Exhibit No. 9 is a history of the cumulative recovery account.

- Q. DOES THIS CONCLUDE YOUR TESTINOMY?
- A. Yes, it does.